A CEOS/LPV initiative for on line validation of global land products

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The On Line Validation Exercise is a **web** service designed to:

- **Quantify** the **performances** of **EO land products**
- **Using transparent** and **traceable methods following standards defined by CEOS**
- **Provide open access of the results to the whole scientific community.**
- **Capitalize on the several initiatives undertaken within the community**
- **Allow frequent updates of results to reach stage 4 of the validation process**

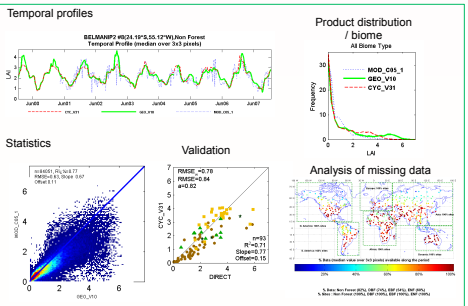
3 main functionalities:

Easy & transparent access to validation results

Provide information

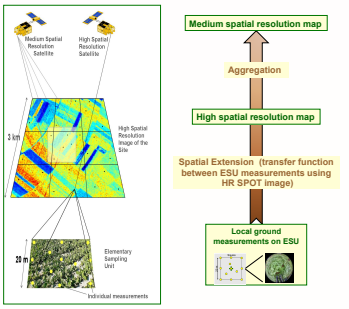
- OLIVE main issues and objectives
- **How to** use OLIVE :
  - Available products
  - Running a validation exercise
  - Uploading a new product
  - Submitting a ground validation site
  - Main validation results
- **Source code**
  - Description
  - Download (matlab source code or executable file)

Evaluate New EO product/ version developed by any producer



Evaluate and publish:
- Users can evaluate products/algorithms in a private area
- Satisfying results can be published and made available to the whole community

Propose new ground validation sites



Candidate site must fulfill CEOS criteria on ground measurement methodology, sampling, upscaling method, site size to be **approved by CEOS/LPV**

Evaluation performed over **2 database** of 3x3km² sites homogeneous at the 1km scale

BELMANIP2 (**BE**nchmark **L**and **M**ultisite **AN**alysis and **I**ntercomparison of **P**roducts) : 445 sites representative of the global biome distribution and conditions

DIRECT: 113 ground validation sites issued from networks + other data provided by the community

OLIVE is available on line and is hosted on the **CEOS CAL/VAL portal**

http://calvalportal.ceos.org/cvp/web/olive/descriptions

First implementation for **LAI, FAPAR, FCOVER** for a selection of currently available global products:

MODIS, CYCLOPES, GEOLAND, GLOBCARBON,

References

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